

Jason C. Ross, PE

Physical Resources – In-Air Acoustics



Education

ME, Acoustics, Pennsylvania State University, 2010

BS, Mechanical Engineering, University of Colorado, 1996

Registrations/Certifications

Professional Engineer (Mechanical) MA, 2007

Professional Engineer (Mechanical) TX, 2011

Affiliations/Memberships

Transportation Research Board, ADC40 (Rail), Chair, 2014

Institute of Noise Control Engineering

Jason is currently employed as an Engineer by the Volpe National Transportation Systems Center. Jason has been employed by Volpe from September 2022 to the present. At Volpe, Jason supports noise and vibration studies, policy development, and research. Jason does not represent the Volpe Center or any federal agency in his continued support of the Revolution Wind Farm Project.

Mr. Ross completed work in support of the Revolution Wind Farm Project as VHB's Director of Noise and Vibration Services where he was employed from June 2015 to August 2022.

He has considerable experience leading teams that provide state-of-the-art noise and vibration services for a wide-range of energy projects including offshore wind, solar facilities, electrical transmission and distribution, and gas pipelines. Jason's expertise includes project oversight, preparing local, state and federal acoustical studies, advanced engineering and final design of noise and vibration control, and public outreach. Jason also has experience with noise and vibration research and development, industrial noise control, developing measurement and analysis systems, providing noise and vibration course instruction and expert testimony.

24 years of professional experience

Orsted Revolution Wind Farm Sound Study, North Kingston, RI

Jason is leading an airborne sound study of the proposed Orsted Revolution Wind Farm Project approximately 15 miles south of the Rhode Island coast. This project would include offshore wind turbine generators, transmission line connection to an onshore vault and substation. The sound study included ambient onshore sound monitoring, sound modeling of operations including sound from the wind turbine generators, nautical hazard devices (fog horns), and sound from the onshore substation. Sound from the construction activities including horizontal directional drilling and operational noise from the proposed substation have also been predicted. Potential noise effects were evaluated according to federal, state, and local noise regulations and ordinances.

Deepwater Wind South Fork Wind Farm Sound Study, Easthampton, NY

Jason has led a sound study of the proposed Deepwater Wind South Fork Wind Farm Project in Easthampton, NY in support of the New York State Article VII process. This project would include 15 offshore wind turbine generators, transmission line connection to an onshore vault and substation. The sound study included ambient sound monitoring and sound modeling for construction activities including horizontal directional drilling and operational noise from the proposed substation. Potential noise effects were evaluated according to federal U.S. EPA, New York State Department of Environmental Conservation, Suffolk County, and local noise regulations, policies, and ordinances. Jason evaluated the need to attenuate sound from the proposed facility to meet applicable limits and identified a range of options to adequately attenuate sound from the facility through substation equipment sound power rating specifications and perimeter sound walls.

Emera Maine, Atlantic Link HVDC Substation Sound Study, Plymouth, MA

Jason has led a sound study of a proposed 1000-megawatt subsea transmission cable system and associated high-voltage direct current (HVDC) converter station. The sound study included conducting ambient sound measurements in the study area, predicting sound emissions from the proposed HVDC station, and evaluating potential sound attenuation measures to mitigate potential effects. Sound from the proposed station was evaluated according to stated noise regulations, the Massachusetts Department of Environmental Protection noise policy, the Town of Plymouth bylaws, and other national guidelines for minimizing the noise effects from the construction and operation of the proposed project.

Champlain Hudson Power Express HVDC Converter Station Sound Study

Jason has conducted a sound study to assess potential noise impact from the proposed installation of an HVDC Converter Station. The CHPE Project includes the construction of an HVDC transmission line approximately 330 miles from the New York/Canada Border. The sound study involved ambient sound measurements, detailed acoustical analysis of the proposed facility, a noise control analysis, and acoustical design of a perimeter noise wall. Jason has supported the client with discussions with the New York State Department of Public Service Article VII process.

Sudbury to Hudson Shunt Reactor Sound Study, Sudbury, MA

Jason has conducted a sound study to assess potential noise impact from the proposed installation of a 20 megavolt-ampere reactive air core shunt reactor and associated switching and protection equipment at an existing substation. The installation of the shunt reactor is in association with the proposed construction of the 9-mile underground transmission line. The study included measurements of existing ambient sound conditions, future sound level predictions with the proposed equipment, and an assessment of potential impact according to the Massachusetts Department of Environmental Protection noise regulation and the Town of Sudbury Zoning By Laws.

Granite Bridge Pipeline and LNG Facility, Exeter to Manchester, NH

Jason is leading a sound and vibration study for a proposed 27-mile natural gas pipeline and liquefied natural gas (LNG) facility located along New Hampshire (NH) Route 101 and a 140-acre parcel in Epping, NH. The sound study includes both long-term and short-term ambient sound measurements to characterize the existing conditions, a three-dimensional noise model of the proposed LNG facility, and a construction noise and vibration assessment. This sound study supplements the NH Site Evaluation Committee Process in accordance with SEC Chapter 300 Part Site 301.08 Effects on Public Health and Safety and Part Site 301.13 Criteria Relative to Findings of Unreasonable Adverse Effects.

Mystic River Natural Gas Pipeline Acoustical Assessment, Somerville MA

Jason conducted an acoustical assessment of the construction (repair) of the section of the natural gas transmission pipeline that crosses the Mystic River between Medford and Arlington, Massachusetts. The construction included the horizontal directional drilling (HDD) method to install the new section of pipe with two primary construction areas for entry and exit of the pipeline. In support of the Prior Notice Filing for the project, Jason conducted an acoustical assessment according to the Federal Energy Regulatory Commission "Guidance Manual for Environmental Report Preparation for Applications Filed Under the Natural Gas Act" (guidance manual) dated December 2015.